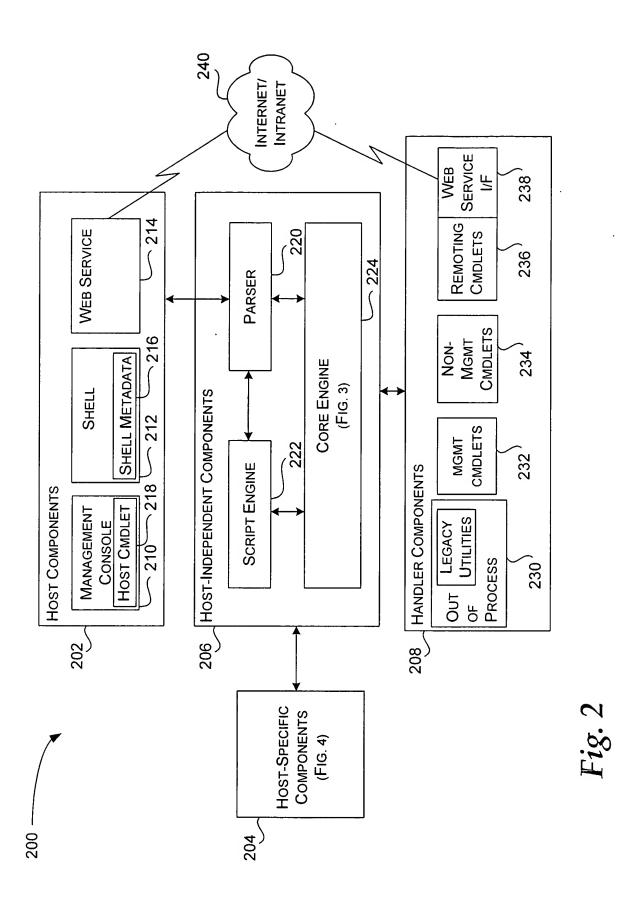


Fig. 1



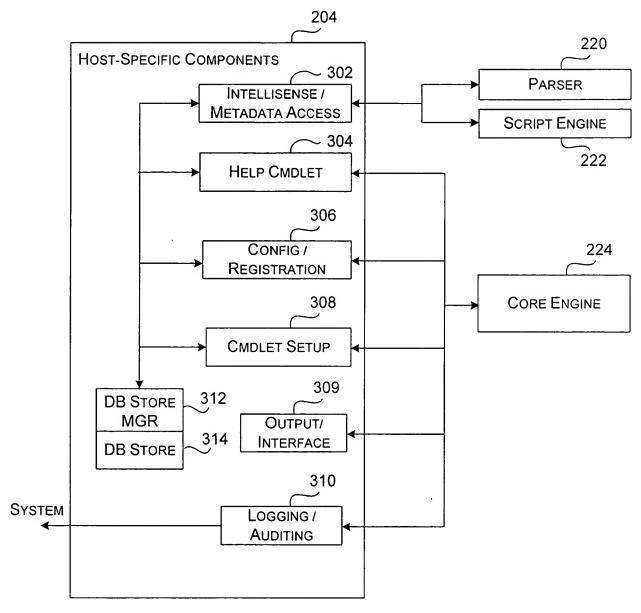


Fig. 3

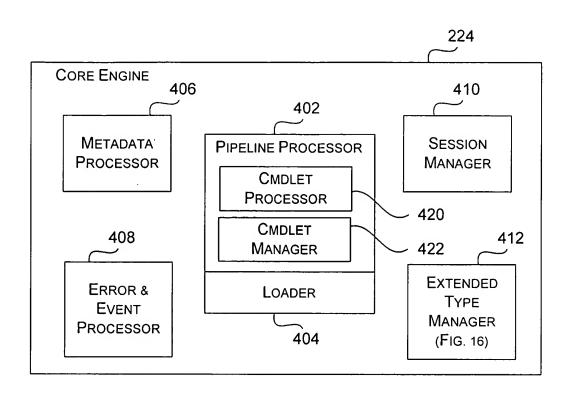
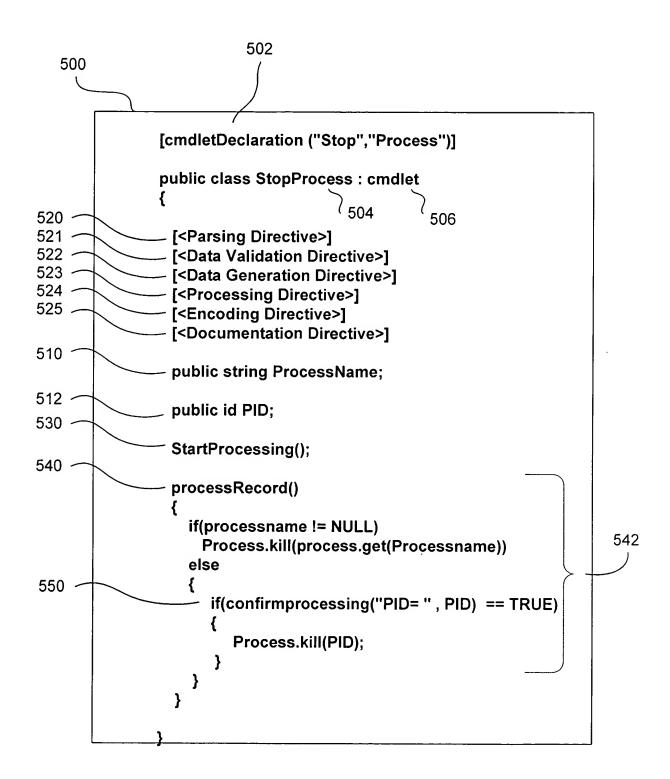


Fig. 4



*Fig.* 5

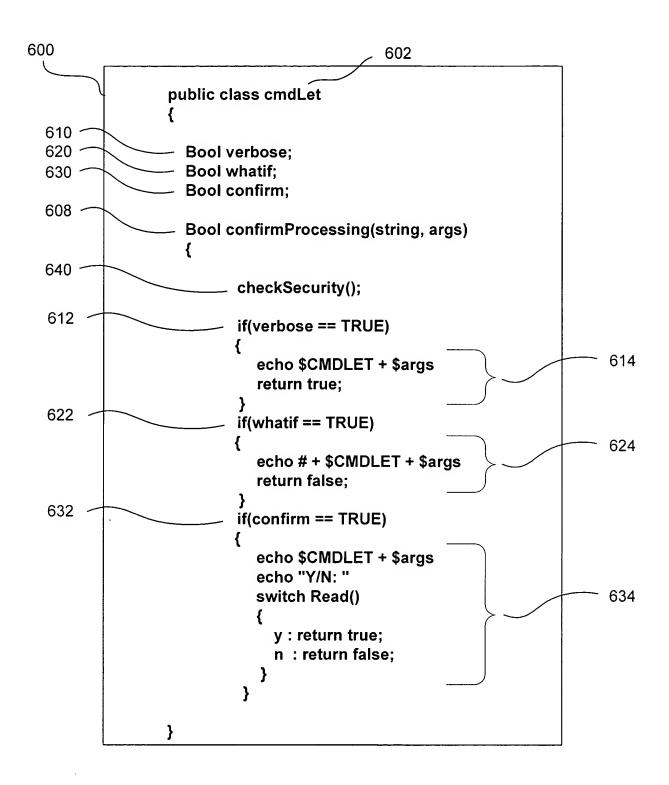


Fig. 6

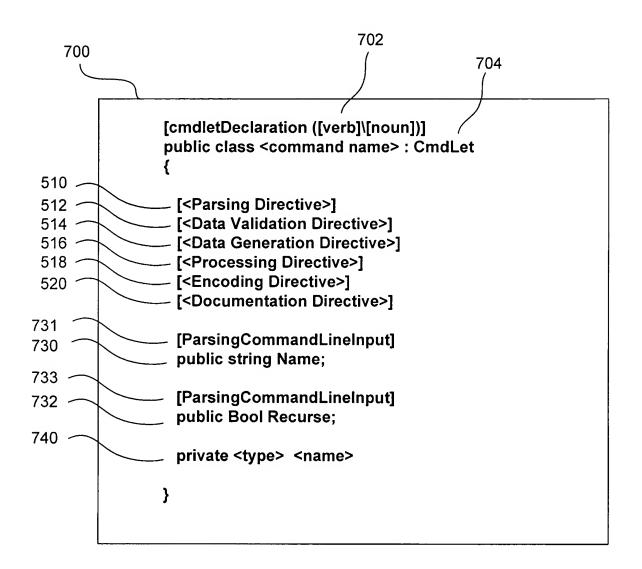


Fig. 7

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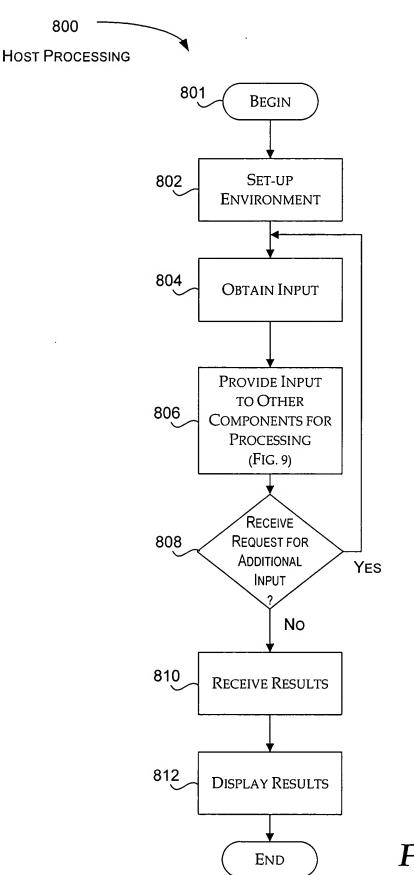


Fig. 8

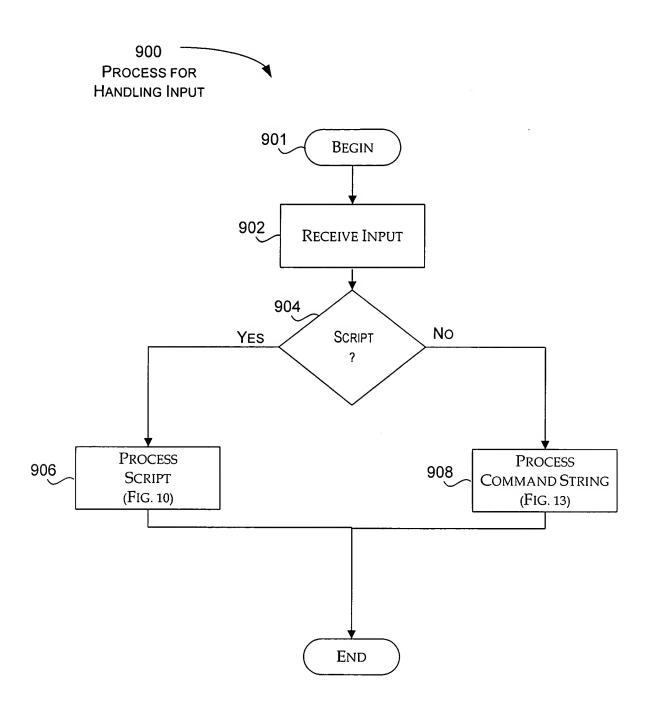
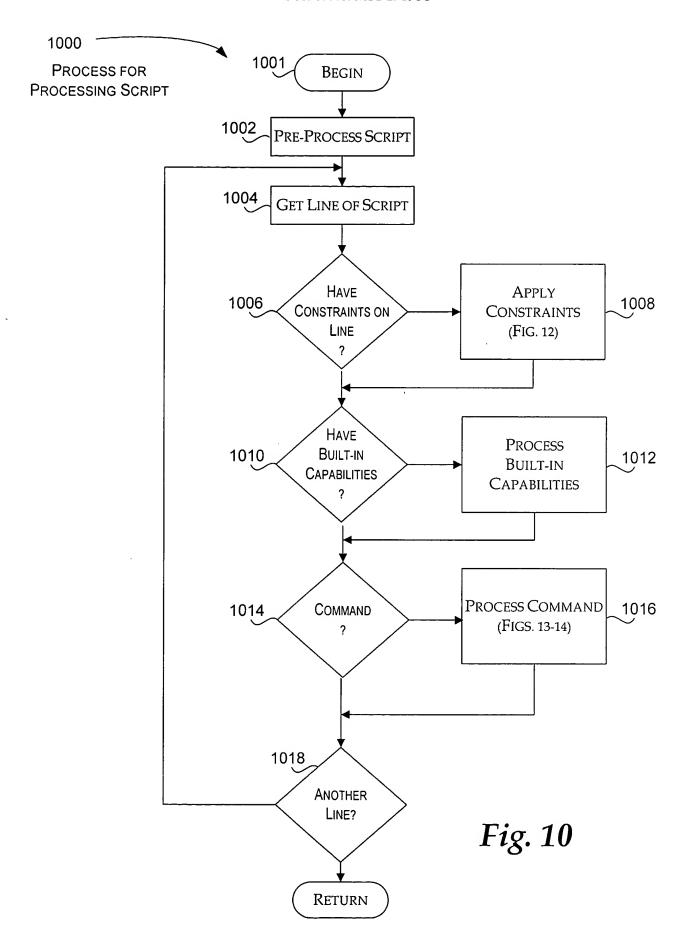
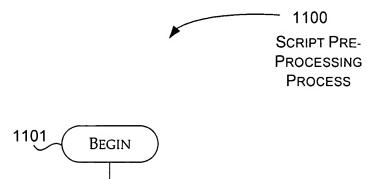


Fig. 9





1108 **FIRST** ANY TIME SCRIPT 1102 **ERRORS IN** No <u>No</u> Has Run SCRIPT ? ? YES YES 1104 SEND ALERT 1110 REGISTER SCRIPT **CONCERNING ERRS** 1106 EXTRACT HELP AND **DOCUMENTATION** RETURN

Fig. 11

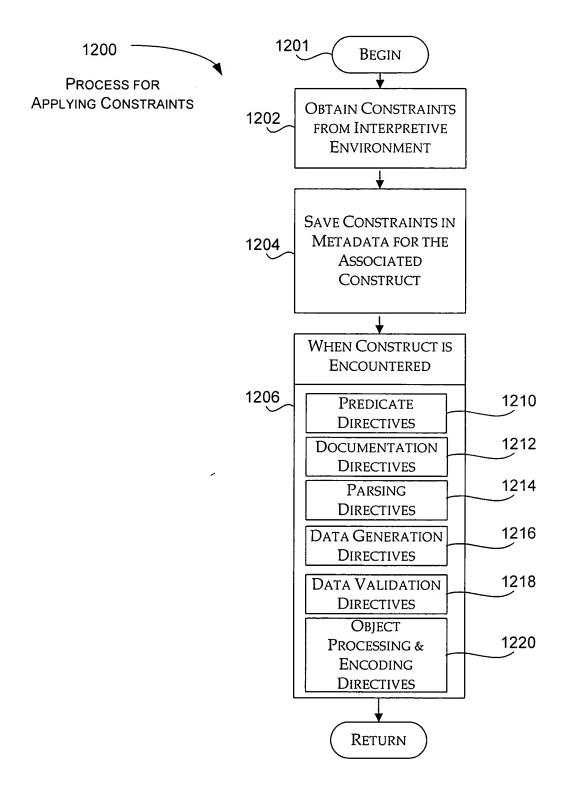
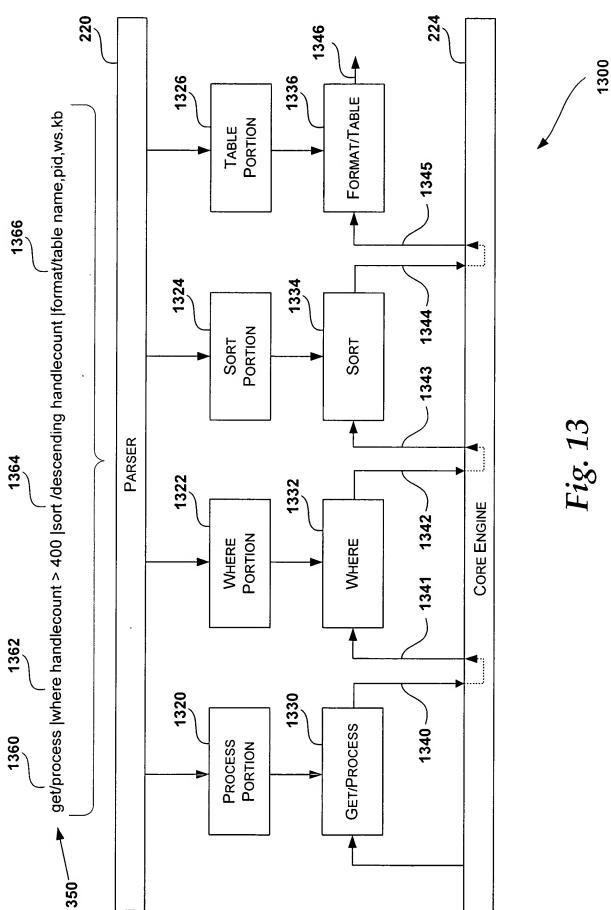


Fig. 12



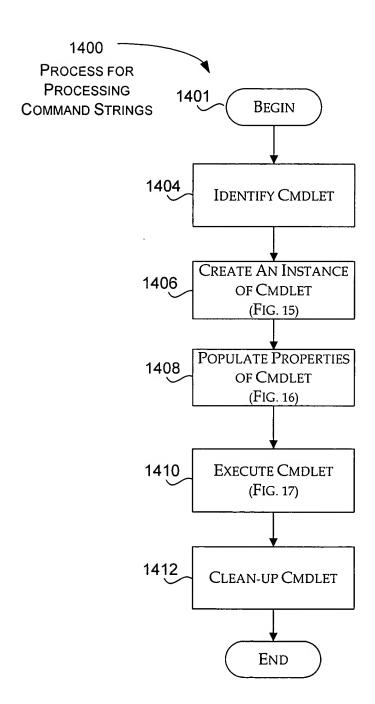


Fig. 14

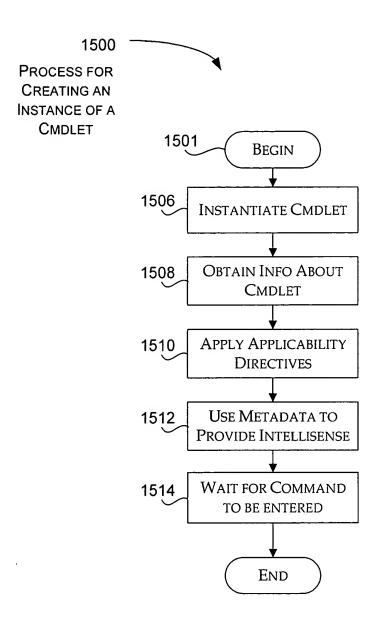
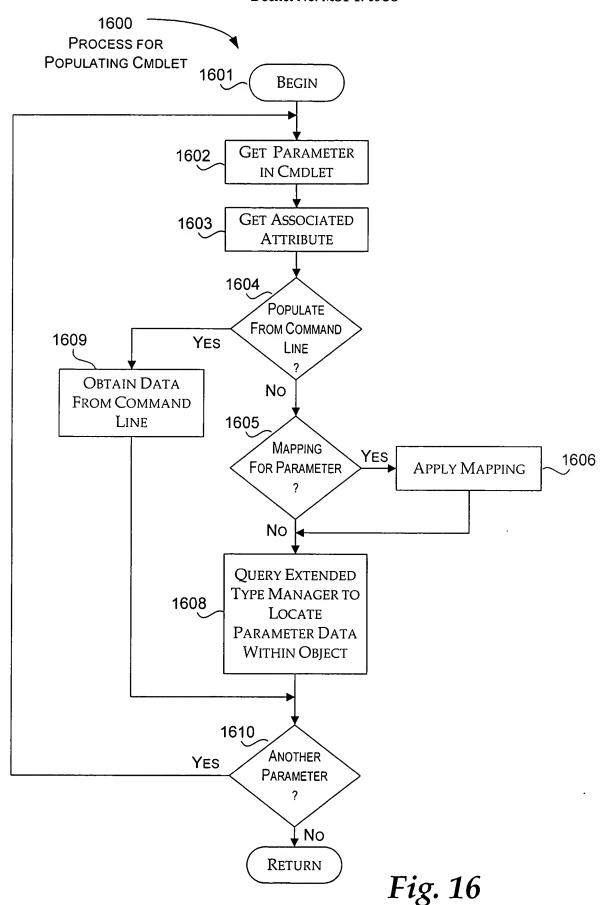
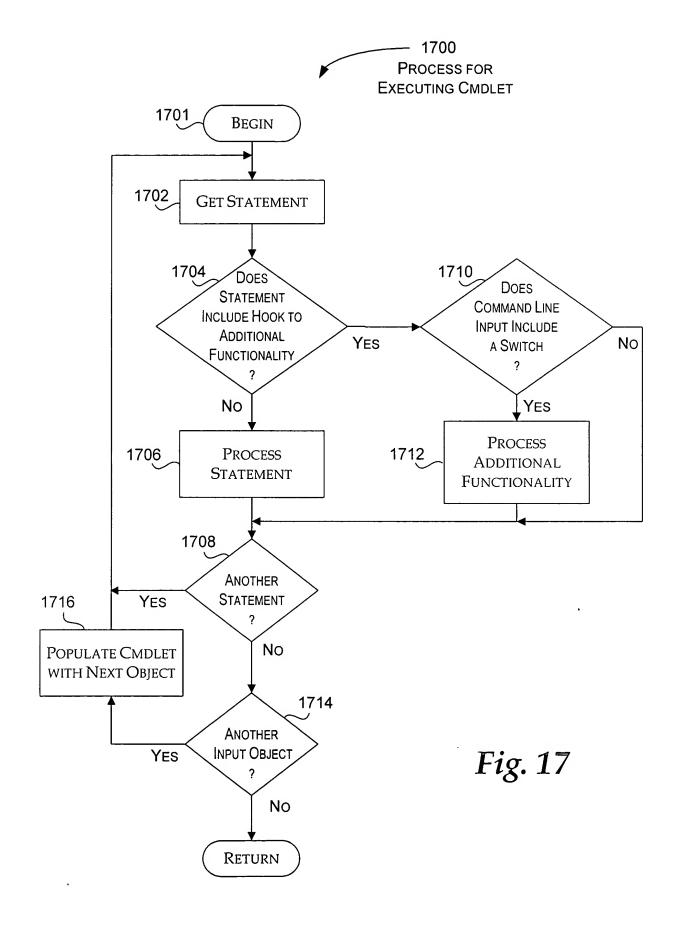
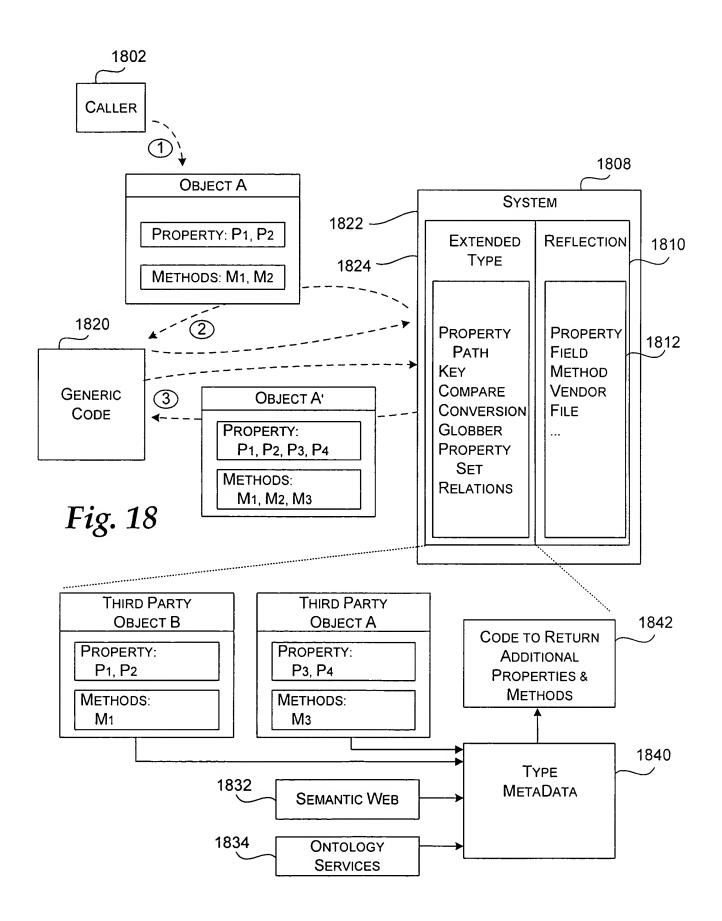


Fig. 15







Inventor:s: Snover et al. Docket No: MS1-1740US

#### PIPELINING SEQUENCES FOR DATA DRIVEN OUTPUT

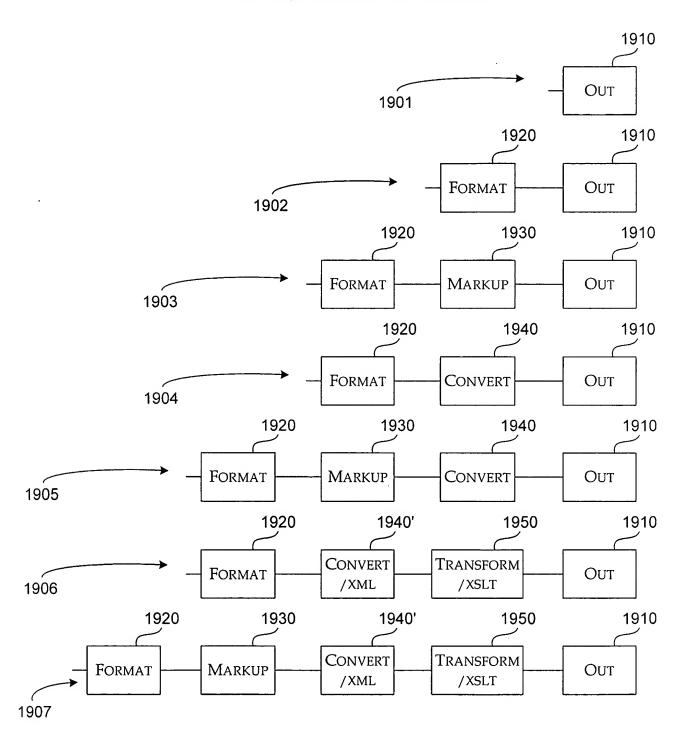
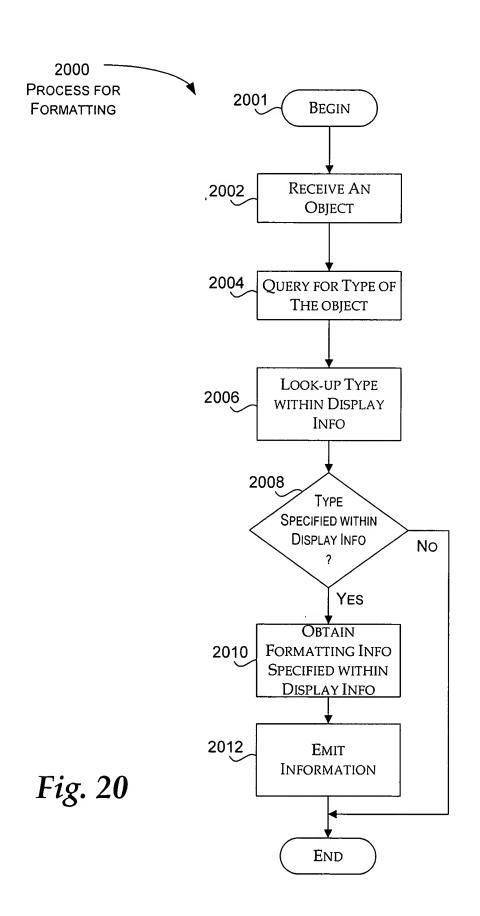


Fig. 19

within an Interative Environment Inventor:s: Snover et al.

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2100 EXEMPLARY DISPLAY INFORMATION

```
<DISPLAYINFO>
<TYPE> DIRECTORYINFO </TYPE>
<SHAPE> TABLE </SHAPE>
<COLUMNS>
 <COLUMN>
  <PROPERTYNAME> LASTWRITETIME 
 </COLUMN>
 <COLUMN>
  <PROPERTYNAME> SIZE </PROPERTYNAME>
  <ALIGN> LEFT </ALIGN>
  <WIDTH> 10 </WIDTH>
  <FORMATSTRING> D </FORMATSTRING>
  <LABEL> SIZE </LABEL>
 </COLUMN>
</COLUMNS>
<HEADER>
</HEADER>
<GROUPBY> PARENTPATH </GROUPBY>
</DISPLAYINFO>
```

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2200 **format/table** [-properties *propList*] [-exclude *propList*] [-groupby 2201 propName] [-encoding charEncodingType] [-header headerSpec] [-footer footerSpec] [-pagelayout pageLayoutSpec] **format/list** [-properties *propList*] [-exclude *propList*] [-groupby 2202 propName] [-encoding charEncodingType] [-header headerSpec] [-footer footerSpec] [-pagelayout pageLayoutSpec] **format/wide** [-property *propName*] [-encoding *charEncodingType*] [-2203 header headerSpec] [-footer footerSpec] [-pagelayout pageLayoutSpec] add/markup [-markupSpec] {whereClause => {markupProp => value, 2204  $[markupProp \Rightarrow value, ...]$ ,  $\{whereClause \Rightarrow \{markupProp \Rightarrow value, ...\}$ [markupProp => value,...]} | \$markupSpecVar | markupSpecFile convert/text [-encoding charEncodingType] 2205 **convert/sv** –separator *separatorType* [-encoding *charEncodingType*] 2206 convert/csv [-encoding charEncodingType] 2207 convert/ADO 2208 convert/XML [-encoding textEncodingType] 2209 convert/html [-encoding textEncodingType] 2210 · transform/XSLT -XslFile xslFilename 2211 out/console [-p(age) [lines]] 2212 out/file -filename filename [-overwrite | -append] 2213 -

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2300 ~

#### [1]\$ dir | format/table | out/console

Written Length.kb Name 6/28/2002 12:52:10 PM 189 sd.exe 11/7/2002 10:59:18 AM 0 sd.ini 6/28/2002 12:52:10 PM 2,633 sd.pdb 6/28/2002 12:52:18 PM 223 sdscc.dll

[2]\$ dir | format/list brief.set | convert/text | out/console

Written: 6/28/2002 12:52:10 PM

Length.kb : 189 Name : sd.exe

Written: 11/7/2002 10:59:18 AM

Length.kb : 0 Name : sd.ini

Written: 6/28/2002 12:52:10 PM

Length.kb: 2633 Name: sd.pdb

[27]\$ %mymarkupspec = {where length.kb -gt 500 => {applyto => all, font.name => arial, font.style => bold, font.color => blue}
[28]\$ dir i\*| format/table | markup %mymarkupspec | out/console

Written	Length.kb	Name
9/11/2002 3:11:10 PM	1,020	Interop.Excel.dll
9/11/2002 3:11:10 PM	192	Interop.Microsoft.Office.Core.dll
9/11/2002 3:11:10 PM	120	Interop.SHDocVw.dll
9/11/2002 3:11:09 PM	12	Interop.TASKSCHEDULERLib.dll
9/11/2002 3:11:10 PM	56	Interop.VBIDE.dll

#### [1]\$ dir | format/table | convert/csv | out/console

"Written","Length.kb","Name"

"6/28/2002 12:52:10 PM","189","sd.exe"

"11/7/2002 10:59:18 AM","0","sd.ini"

"6/28/2002 12:52:10 PM","2633","sd.pdb"

"6/28/2002 12:52:18 PM","223","sdscc.dll"